Fernandez 10/784,980

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ACCESSION NUMBER:

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TITLE:

L-amino acids manufacture with bacteria from

glucose and pentose mixtures

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Ajinomoto Co., Inc., Japan Jpn. Kokai Tokkyo Koho, 16 pp.

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1

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JP 2004254694	A2	20040916	JP 2004-51056	20040226
BR 2004000577	Α	20041207	BR 2004-577	20040220
US 2004229321	A1	20041118	US 2004-784980	20040225
PRIORITY APPLN. INFO.:			RU 2003-105269	20030226

The L-amino acids are manufactured from low-cost pentose mixts. obtained from cellulosic biomass as substituted for a portion of **glucose**. The pentose mixts. contain mainly arabinose and xylose. The L-amino acids are selected from L-isoleucine, L-threonine, L-tryptophan, and L-histidine. Manufacture of L-tryptophan with Escherichia coli from **glucose** and pentoses (arabinose and xylose) was shown. The production of L-tryptophan is comparable to that uses **glucose** as the sole C source.

IC ICM C12P013-04

ICS C12P013-06; C12P013-08; C12P013-22; C12P013-24

CC 16-2 (Fermentation and Bioindustrial Chemistry)

ST cellulosic biomass amino acid manuf Escherichia; **glucose** substitute amino acid manuf Escherichia

IT Carbon sources, microbial

Escherichia coli

Eubacteria

Fermentation

(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT Amino acids, preparation

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT Pentoses

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)

IT Gene, microbial

RL: BSU (Biological study, unclassified); BIOL (Biological study) (amino acid-synthesizing; L-amino acids manufacture with Escherichia coli from glucose and pentose mixts.)

IT Biomass

Solid wastes

(cellulosic; L-amino acids manufacture with Escherichia coli from glucose and pentose mixts.)

- TT 71-00-1P, L-Histidine, preparation 72-19-5P, L-Threonine, preparation 73-22-3P, L-Tryptophan, preparation 73-32-5P, L-Isoleucine, preparation RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
 - (L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
- IT 9004-34-6, Cellulose, biological studies
 - RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
 - (L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)
- IT 50-99-7, D-Glucose, biological studies 58-86-6, D-Xylose, biological studies 5328-37-0, L-Arabinose RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 - (L-amino acids manufacture with Escherichia coli from **glucose** and pentose mixts.)